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United States Environmental Protection Agency
Washington, DC 20460

ORIGINAL

Document Description

SAT P-01-148

Date

1/2/01

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98

Case #: P-01-0148

DCN:

SAT Date: 12/15/2000

SAT Chair: B. Jones

Submitter: Atofina Chemicals, Inc.

Chemical Name:

CAS RN:

Trade Name:

SMA 31890

Structure



Molecular Formula:

Molecular Wt.

WT%<500:

WT%<1000:

MP: 45.00

BP:

Eq. Wt:

H2O Sol (g/L):

<0.001

V.P.

<0.000001

Max. Prod. Volume (kg/yr):

Physical State:

Solid

USE:

Oil and gas well fracturing fluid (component of a gelling agent). STN file CA: no references found. The PMN substance is an alternative to currently available phosphate based oil-fracturing fluids.

Related Case Numbers

Case Role

Related Case Numbers

Case Role

Focus

Date: 12-21-00

Results:

Drop

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STRUCTURE ACTIVITY TEAM REPORT

CASE NUMBER: P01-0148

RELATED CASES:

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN:	HEALTH	ECOTOX
LEVEL OF CONCERN:	1	1
KEYWORDS:		

SUMMARY OF ASSESSMENT

FATE: Solid
S = Negl.; VP @ 25C (mm) < 1.0E-6(E); H < 1.00E-8(E)
MP (C) = 45(M);
POTW removal (%) = 90 via sorption
Time for complete ultimate aerobic biodeg > mo
PBT Potential: P3B1T1
Sorption to soils/sediments = v.strong
*CEB FATE: Migration to ground water = negl

HEALTH: Absorption is nil all routes based on physical/chemical properties. No significant health concerns.
*CEB HEALTH: Low concern (no exposures needed). XB: No testing desired.

ECOTOX: Predicted (P) toxicity values in mg/L (ppm) are:

fish 96-h LC50	=	*	P
daphnid 48-h LC50	=	*	P
green algal 96-h EC50	=	*	P
fish Chronic Value (ChV)	=	*	P
daphnid ChV	=	*	P
algal ChV	=	*	P

based on SARs for anionic polymers; SAR chemical class = XXXXXXXXXX
XXXXXXXXXX; NavgMW XXXXXX; hardness <180.0 mg/L as CaCO₃, 100%
active ingredients, nominal concentrations, and TOC <2.0 mg/L;
low concern;

assessment factor	=	10.0	
concern concentration (CC)	=	*	mg/L

*CEB ECOTOX: No releases to water;

Becky Jones 260-3461

NCSAB SAT REPORT CBI? (Y/N):

PMN: P-01-0148 CAS RN:

ChemName: Analogs:

PV:

Structure:

Use:
Oil and gas well fracturing fluid (component of a gelling agent).
STN file CA: no references found.
The PMN substance is an alternative to currently available phosphate based oil-fracturing fluids.

Formula: Eq Wt:

MW: Wt% < 500: Wt% < 1000:

MP (M): 45.00 MP (E): BP: BP (E): VP: < 0.000001

WS g/L (E): < 0.001 WS (M) Phys. State: Solid Log P (M):

Endpoint (mg/L)	Est. Value	Meas. Value	Comments	Log P (SRC):
Fish 96-h	*			Log P (ClogP):
Daphnid 48-h	*			
Algal 96-h	*			
Fish ChV	*			
Daphnid ChV	*			
Algal ChV	*			
BCF				

CHEMICAL CLASS: SAR: polymer - anionic

ECOTOX CONCERN H M L CONCERN CONCENTRATION *

DATE: Dec. 14, 2000 ASSESSOR:

